

(c) if so, the steps being taken by Government to increase generation of energy from non-conventional sources?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) No, Sir. The Ministry under its various programmes such as wind, hydro, biomass, solar and urban and industrial wastes has installed a cumulative capacity of about 300 MW by end of 31st December, 2000 which is about 3% of the total installed capacity of energy generation in the country. This compares favourably with most of the world.

(b) and (c) The exploitation of potential of non-conventional energy is a continuous and on-going process which offers limitless possibilities for its use and is expected to increase sharply in coming years depending upon the availability of financial resources both public and private and technical feasibility and economic viability of available technologies. In addition, the Ministry is implementing a wide range of programmes/schemes to exploit the potential and to encourage utilisation, promotion and development of non-conventional energy sources, by providing various fiscal, financial and promotional incentives including central subsidy, soft term loans and conducive renewable energy power policies for wheeling, banking, buy-back and third party sale of renewable energy power.

Power sector reforms

1245. SHRI K.KALAVENKATARAO:

SHRI RUMANDLA RAMACHANDRAIAH.

Will the Minister of POWER be pleased to state the action to pursue power sector reforms and put in place better transmission and distribution systems in view of acute power crisis in Northern Grid during January, 2001 ?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA): Immediately after the grid collapse, Minister of Power addressed a letter to the Chief Minister of UP and to all the Chief Ministers advising them to ensure grid discipline by restricting their drawals from the grid in accordance with their allocated quota and grid requirements. Secretary (Power) on 11.1.2001 directed Chairman, Central Electricity Authority to monitor the action taken on weekly basis for implementing the recommendations made for preventing recurrence of such incidents. Chairman, Central Electricity Authority was also directed to indicate punitive action required to be taken against those responsible for the grid collapse. The implementation of the Action Plan

[7th March,2001]

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formulated in accordance with the recommendations made by Chairman, Central Electricity Authority is being vigorously monitored by Central Electricity Authority and Ministry of Power.

The important preventive measures being taken to avoid such incidents in future are as follows:

1. Periodic preventive and regular maintenance of all HVDC, 400 KV and 220KV lines and sub-stations.
2. Introduction of free governor mode of operation at all generating stations.
3. Ensuring proper operation of under frequency load shedding relays in SEBs distribution systems.
4. Implementation of a rational commercial mechanism which would induce SEBs to regulate their drawal and the generators to generate power according to schedules, to enable stabilization of voltage and frequency.
5. Installation of capacitors at load centres of State Electricity Boards.
6. In reform MOUs, States are committing to follow Indian Electricity Grid Code and maintain grid discipline.

Besides, under the Accelerated Power Development Programme (APDP), fifty distribution circles have been identified in the first phase for strengthening the distribution system. An Expert Committee has been constituted to assist State Governments/State Power Utilities in the areas of project formulation, implementation and monitoring/evaluation in all the distribution circles.

Clearance of pending proposals for power generation in Kerala

1246. SHRI A. VIJAYA RAGHAVAN: Will the Minister of POWER be pleased to state:

- (a) the details of the pending proposals for power generation in Kerala;
- (b) the steps taken by Government for the early clearance of the existing proposals;
- (c) whether there is any proposal for capacity addition of Kayamkulam power plant; and
- (d) the steps taken in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTIMEHTA): (a) and (b) As on 28.2.2001, no Detailed Project Report